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PATENT  
Docket No. 509982003300

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

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Valerie Cohen

Valerie Cohen

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Joerg BISCHOFF et al.

Serial No.: 10/066,555

Filing Date: January 31, 2002

For: OVERLAY MEASUREMENTS USING  
PERIODIC GRATINGS

Examiner: K. Shah

Group Art Unit: 2863

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INFORMATION DISCLOSURE  
STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record in the application.

01/13/2004 AWONDAF1 00000015 031952 10066555

01 FC:1806 180.00 DA

sf-1620939

This Information Disclosure Statement is submitted:

- With the application; accordingly, no fee or separate requirements are required.
- Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required.
- After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.**
  - A fee is required. A check in the amount of \* is enclosed.
  - A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.**
  - A Certification under 37 C.F.R. § 1.97(e) is provided below; accordingly; no fee is believed to be due.
- After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.
  - A Certification under 37 C.F.R. § 1.97(e) is provided below and a check in the amount of \* is enclosed.
  - A Certification under 37 C.F.R. § 1.97(e) is provided below and a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.

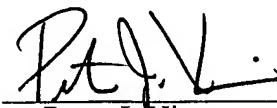
Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Information Disclosure Statement under 37 C.F.R. § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal letter is separated from this document and the Patent Office determines that an extension and/or other relief is required, applicant petitions for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing **509982003300**. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

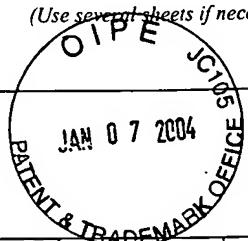
Dated: January 7, 2004

Respectfully submitted,

By:   
Peter J. Yim  
Registration No. 44,417

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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (Use several sheets if necessary)		Docket Number 509982003300	Application Number 10/066,555
		Applicant	Joerg Bischoff et al.
		Filing Date January 31, 2002	Group Art Unit 2863
		Mailing Date January 7, 2004	



U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	6/1/1982	4,332,473	Ono			
	2.	5/29/1990	4,929,083	Brunner			
	3.	9/30/1997	5,672,520	Natsume			
	4.	9/13/1994	5,347,356	Ota et al.			
	5.	8/13/1996	5,545,593	Watkins et al.			
	6.	6/27/2000	6,079,256	Bareket			
	7.	4/22/1997	5,622,796	Canestrari et al.			
	8.	11/21/1995	5,468,580	Tanaka			
	9.	9/19/1995	5,452,090	Progler et al.			
	10.	5/7/2002	6,383,888	Stirton			
	11.	10/7/1997	5,674,650	Dirksen et al.			
	12.	9/24/2002	6,457,169	Ross			
	13.	12/3/2002	6,489,068	Kye			
	14.	8/18/1998	5,795,687	Yasuda			
	15.	10/31/2002	US 2002/0158193 A1	Sezginer et al.			
	16.	1/2/2003	US 2003/0002043 A1	Abdulhalim et al.			

FOREIGN PATENT DOCUMENTS

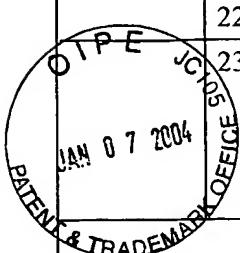
Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
	17.	9/7/1988	0 281 030 A2	EPO			
	18.	4/17/1991	0 422 395 A2	EPO			
	19.	1/18/1995	0 634 702 A1	EPO			
	20.	6/29/1988	0 272 853 A2	EPO			
	21.	3/28/2002	02/25723 A2	WO			

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Form PTO-1449				Docket Number 509982003300	Application Number 10/066,555		
INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Applicant Joerg Bischoff et al.			
				Filing Date January 31, 2002	Group Art Unit 2863		
				Mailing Date January 7, 2004			



22.	12/4/1997	97/45773	WO					
23.	12/14/2000	19925831 A1 with Abstract in English and English Translation	DE			X		
OTHER DOCUMENTS <i>(including author, title, Date, Pertinent Pages, Etc.)</i>								
Examiner Initials	Ref. No.	Title						
	24.	Neal T. Sullivan, Semiconductor Pattern Overlay, 15 pages, Digital Equipment Corp., Advanced Semiconductor Development, Hudson, MA 01749-2895						
	25.	Lifeng, Li "Symmetries of Cross-Polarization Diffraction Coefficients of Gratings." <i>J. Opt. Soc. Am.</i> A/Vol.17, No. 5 (2000).						
	26.	Bischoff, J. et al. "Light Diffraction Based Overlay Measurement." <i>Proc. SPIE</i> Vol. 4344, pg. 222-233, <i>Metrology, Inspection, and Process Control for Microlithography XV</i> , (2001).						

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